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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE MAR 20 2002

Applicant: Ole Isacson et al.

Art Unit: 1632

Serial No.: 09/626,677

Examiner: A. Baker

Filed: July 27, 2000

Customer No.: 21559

Title: CELL IMPLANTATION THERAPY FOR NEURODEGENERATIVE DISEASES OR DISORDERS

Assistant Commissioner for Patents  
Washington, D.C. 20231

REPLY TO EXAMINER'S ACTION

In reply to the Examiner's Action mailed October 4, 2001, Applicants submit the following remarks.

The Invention

The invention features methods for treating neurodegenerative disorders by transplanting into patients lineage-restricted progenitors generated from embryonic stem cells. The stem cells are transformed, *ex vivo*, to express one or more cell fate-inducing genes which direct their differentiation into a neuronal or glial cell type. These transformed cells are transplanted into the nervous system of the patient. Suitable cell fate-inducing genes are disclosed in the specification.